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10/526,493	03/30/2006	Ibrahim H. Ibrahim	22409-00360	7351
7590 0428/2009 CONNOLLY BOVE LODGE & HUTZ LLP			EXAMINER	
1875 EYE STREET, N.W.			DIETRICH, JOSEPH M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/526 493 IBRAHIM, IBRAHIM H. Office Action Summary Examiner Art Unit Joseph M. Dietrich 3762 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 January 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-33 and 58 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-33 and 58 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 04 March 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(e)

1) ∑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patient Drawing Review (PTO-948) 3) ☐ Information Disclusions Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (PTO-413) Paper Nots Mail Date. 5-5) Netice of Informal Patent Application 6) Other:	
J.S. Patent and Trademark Office		

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which
papers have been placed of record in the file.

Response to Arguments

Applicant's arguments filed January 16, 2009 regarding claim 58 have been fully considered but they are not persuasive.

Applicant argues that Chen merely discloses determining a distance between the internal and external devices, and does not provide an indication that the devices are displaced. However, in column 7, lines 11 – 19, Chen teaches illuminating LEDs "to indicate that the external transmitter is properly aligned and oriented relative to the internal receiver." Thus, Chen provides an indication that the devices are displaced by not illuminating the LEDs.

Applicant argues that Chen could not determine that the internal unit and external unit are displaced by determining that a threshold is exceeded. Examiner disagrees. American Heritage Dictionary defines exceed as "to extend beyond or outside of, or to go beyond the limits of." Chen discloses a threshold value in column 7, lines 15 – 20. The strength of the magnetic field that corresponds to minimum separation distance is the minimum threshold value. Any value of magnetic strength that goes "outside of or beyond the limits of" that minimum value, would indicate that the devices are displaced. Furthermore, because the strength of the magnetic field corresponds to a value of

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distance, it is understood that if the actual distance of the devices surpasses or is greater than the threshold distance, the devices are displaced.

Applicant's arguments with respect to claims 1 and 16 have been considered but are moot in view of the new ground(s) of rejection, necessitated by amendment.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 58 is rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al.
 (U.S. Patent 6,138,681).

Regarding claim 58, Chen discloses a method and apparatus comprising a means for measuring the strength of a magnetic field (e.g. column 4, lines 25 - 30); means for determining the position of the external device relative the implant (e.g. column 4, lines 33 - 36); means for comparing a measured strength to a threshold value and means for indicating the external device is displaced when the measured strength exceeds a threshold value (e.g. column 6, lines 3 – 15); means for mapping that comprises a look-up table comprising a plurality of pairs of values of magnetic field strength to separation distance (e.g. column 6, lines 3 – 15).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1 – 4, 11, 12, 16 - 19, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jeutter (U.S. Patent 5,314,453) in view of Kung (U.S. Patent 6,366,817).

Regarding claims 1 – 4, 11, 12, 16 – 19, 28, and 29, Jeutter discloses a method and apparatus comprising a means for measuring the strength of a magnetic field (e.g. column 6, lines 4 – 12); means for determining the position of the external device relative the implant and indicating through use of a visible indication that the device is displaced when the measured strength exceeds a threshold value (e.g. column 4, line 67 – column 5, line 10); but fails to teach that the magnetic field is generated at least in part by the external transceiver. Kung teaches it is known to use an externally generated magnetic field in order to determine the position of an implantable device in relation to the external device as set forth in column 15, lines 50 – 56. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the generated magnetic field as taught by Jeutter with a magnetic field generated at least in part by an external device as taught by Kung, since such a modification would provide the predictable results of allowing a physician or a technician

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to easily access the magnetic field generator and thus more easily perform maintenance on the generator.

 Claims 1 – 7, 11 – 22, and 28 – 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (U.S. Patent 6,138,681) in view of Kung.

Regarding claims 1 - 7, 11-22, 28 - 32. Chen discloses a method and apparatus comprising a means for measuring the strength of a magnetic field (e.g. column 4, lines 25 - 30); means for determining the position of the external device relative the implant (e.g., column 4, lines 33 - 36); means for indicating the external device is displaced when the measured strength exceeds a threshold value (e.g. column 6, lines 3 – 15); means for mapping that comprises a look-up table comprising a plurality of pairs of values of magnetic field strength to separation distance (e.g. column 6, lines 3 – 15); wherein the means for measuring comprises a pickup coil positioned in a plane substantially perpendicular to a primary axis of the magnetic field and comprising an open circuited single turn (e.g. column 4, liens 50 - 58); but fails to teach that the magnetic field is generated at least in part by the external transceiver. Kung teaches it is known to use an externally generated magnetic field in order to determine the position of an implantable device in relation to the external device as set forth in column 15, lines 50 - 56. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the generated magnetic field as taught by Chen with a magnetic field generated at least in part by an external device as taught by Kung, since such a modification would provide the predictable results of allowing a

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physician or a technician to easily access the magnetic field generator and thus more easily perform maintenance on the generator.

 Claims 8 - 10, 23 - 27, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. in view of Kung as applied to claim 1 above, and further in view of Bornhoft et al. (U.S. Patent Application Publication 2003/0074035).

Regarding claims 8 – 10, and 23 – 27, Chen discloses the claimed invention except a bidirectional transcutaneous link. Bornhoft teaches that it is known to use transceivers having a bidirectional RF telemetric link for the transmitting of power and data signals as set forth in paragraphs 13, 14, and 29. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the transcutaneous link as taught by Chen with the bidirectional RF link as taught by Bornhoft, since such a modification would provide the predictable results of minimizing the amount of circuitry in both the implanted device and the external device while still allowing both data and power to be transferred from one device to another.

Regarding claim 33, Chen discloses the claimed invention except for peak detector means. Bornhoft teaches that it is known to use peak detector means to determine the magnetic strength as set forth in paragraph 25. It would have been obvious to one having ordinary skill in the art at the time the invention as made to modify the pick-up coil as taught by Chen with the peak detecting means as taught by Bornhoft, since such a modification would provide the predictable results of efficiently determining the amplitude of the received signal, and thus determining the positioning of

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the external device relative the implanted device.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph M. Dietrich whose telephone number is (571)270-1895. The examiner can normally be reached on M-F, 8:00 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. D./ Examiner, Art Unit 3762 4/24/09 /George R Evanisko/ Primary Examiner, Art Unit 3762